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**AUDIOTEL™**  
MOBILE COMMUNICATIONS DIVISION OF AUDIOVOX CORP.

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# OPERATING INSTRUCTIONS

# TABLE OF CONTENTS

FEATURES AND OPTIONS.....	4
GENERAL SPECIFICATIONS .....	4
TELEPHONE UNIT FUNCTIONS .....	5-6
BASIC OPERATION.....	7
PLACING TELEPHONE CALLS .....	8
SCRATCH-PAD DIALING .....	9
HORN ALERT .....	9
MESSAGE OPTION .....	10
HANDS-FREE(HEADSET) OPERATION(optional) ....	11
IMPORTANT SAFETY INFORMATION .....	11
WARNING .....	11
FREQUENCY CALLED NUMBERS.....	12
WARRANTY VALIDATION CARD .....	13-14
(To be Mailed)	

# AUDIOTEL CELLULAR CAR TELEPHONE FOR BUSINESS ON THE MOVE

The AUDIOTEL Cellular Car Telephone is the most technically advanced car telephone available today. In one sleek, compact system, AUDIOTEL provides cellular mobile technology at its best. This means a car telephone system with six hundred sixty-six available channels and an extended roaming capability that can interface with any cellular system in the United States. The AUDIOTEL Cellular Car Telephone is manufactured in Japan by Toshiba Corporation for Audiovox.

AUDIOTEL's CMT-1000 Cellular Car Telephone offers an outstanding array of features such as push button on-hook dialing that enables you to dial while the handset is in the cradle; repertory dialing that lets you store and recall up to 30 of your frequently called numbers; and last number redial that permits you to redial the last number you called at the touch of a single button (a great help when calling frequently busy phones). An electronic "scratch pad" allows you to enter a number into the unit while you are engaged in a conversation without writing it down; the number can be recalled later using the repertory dialing or last number redial features.

An optional electronic message feature automatically answers your calls when your phone is unattended and either forwards a number where you can be reached or asks the calling party for their number so that you can call back later.

AUDIOTEL has made the installation and maintenance of the Cellular Car Telephone simple. The small, sturdy, compact transceiver can be installed and locked securely to the trunk floor in one easy operation. A flexible mounting system allows the phone to be mounted where you want it. Plug-in modular construction means that maintenance is quick, efficient, simple, and on-the-spot.

For all its high-tech sophistication, the AUDIOTEL CMT-1000 Cellular Car Telephone is surprisingly easy to use; you simply dial—no codes, no operators, no waiting, no hassle.

And the AUDIOTEL Cellular Car Telephone is a no-nonsense, quality instrument—rugged enough for off-road use as well as high speed freeway vibration and pounding.

The following pages, which describe the unit's functions and many of its components, will help you make the easiest and most efficient use of the AUDIOTEL CMT-1000 Cellular Car Telephone.

## FEATURES AND OPTIONS

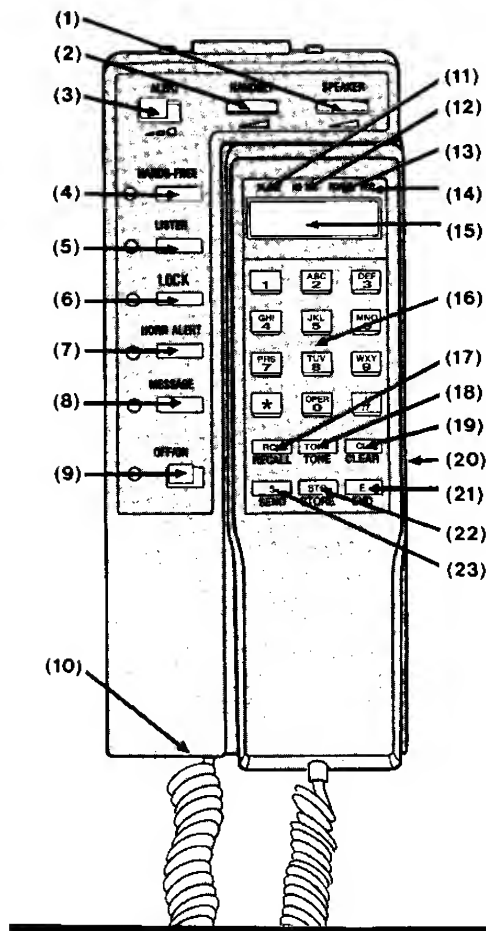
- Push Button Dialing
- 10 Digit Dial Number Display
- 16 Digit Extended Readability
- On-Hook Dialing
- Reset Dialing
- End-to-end Signalling
- Repertory Dialing up to 30 Numbers shared with Electronic Scratch-pad.
- Last Number Redial
- Horn Alert
- Electronic Lock
- Back Lighting of Key Buttons in the Handset.
- Back Lighting of All Control Labels in the Base Unit.
- Electronic Scratch-pad Memory
- Listen or Mute Button
- Flexible Mounting
- Rear Seat Extension (option)
- Hands-Free Operation by Headset (option)
- Electronic Message Recorder (option)

## GENERAL SPECIFICATIONS

(subject to change without notice)

<b>Frequency Range:</b>	825 to 845 MHz Transmit 870 to 890 MHz Receive
<b>Number of RF Channels:</b>	666 Full Duplex
<b>Channel Spacing:</b>	30 kHz
<b>Duplex Spacing:</b>	45 MHz
<b>Frequency Stability:</b>	±2.5 PPM
<b>Operating Temperature:</b>	-30° to +60°C
<b>Supply Voltage:</b>	13.7V DC, ±20%, Negative Ground
<b>Current Drain:</b>	3A in use, 1A standby
<b>Size:</b>	
Transceiver:	55H x 220W x 300D (mm) 2.16H x 8.66W x 11.81D (inches)
Telephone Unit:	75H x 105W x 240D (mm) 2.95H x 4.13W x 9.44D (inches)
<b>Weight:</b>	
Transceiver:	4.0 kg (8.8 lbs)
Telephone Unit:	1.5 kg (3.3 lbs)
<b>RF Power Output:</b>	3 watts minimum (50 ohms)
<b>Conducted Spurious:</b>	60 dB Below Carrier

## TELEPHONE UNIT FUNCTIONS



- (1) **SPEAKER** volume control sets the speaker volume.
- (2) **HANDSET** volume control adjusts the handset volume.
- (3) **ALERT** volume switch (3-position) adjusts the alert (ringing) level.
- (4) **HANDS-FREE** button and indicator changes the audio from the handset to the control unit speaker.
- (5) **LISTEN** button and indicator changes the audio from the handset to the speaker—also functions as a MUTE button.

# BASIC OPERATION

- (6) **LOCK** button and indicator activates the electronic lock when pressed for about 1 second.
- (7) **HORN ALERT** button and indicator activates the external horn alert circuit when pressed for about 1 second.
- (8) \***MESSAGE** button and indicator activates the (optional) electronic message mode.
- (9) **OFF/ON** switch controls power to the unit.
- (10) **HEADSET JACK** for optional "hands-free" headset.
- (11) **IN USE** indicator lights when a call is in progress.
- (12) **NO-SVC** (no service) indicator lights when the unit is in a non-coverage area.
- (13) **ROAM** indicator lights when the unit is out of the home area.
- (14) \***RCD** (received) indicator lights if the unit received a call in your absence.
- (15) **10-DIGIT LCD DISPLAY** indicates telephone number.
- (16) **DIGIT KEYS** to enter telephone number or unlock code.
- (17) **RECALL** key recalls telephone numbers on the repertory dialing list from memory
- (18) **TOE** key suppresses key pad tones when using the scratch-pad feature in the hands-free mode.
- (19) **CLEAR** key clears all digits from the memory and the display.
- (20) **HANDSET RELEASE LEVER** frees handset from the locked position.
- (21) **END** key terminates the call (hangs up).
- (22) **STORE** key stores numbers on the repertory dialing list in memory.
- (23) **SEND** key for originating or receiving a call.

*\*indicates optional feature.*

## Turning the Unit On

With the ignition switch at "on" or "accessory," turn on the power **OFF/ON** switch. The indicator will light (all indicators will light momentarily, and a tone will be heard).

## To Store a Number in Memory

1. Press **CLEAR**, then enter telephone number.
2. Press **STORE**, then enter the memory address (01 through 30).

## To Recall a Number from Memory

Press **RECALL**, then enter the memory address (01 through 30).

## If You Want to See the Prefix (Number Longer than 10 Digits)

After pressing **RECALL**, hold down the second digit of the memory address.

## To Lock the Unit

Press and hold down the **LOCK** button until the indicator lights. The unit will remain locked until unlocked, even if the ignition switch is turned off.

## To Unlock the Unit

Enter the three digit unlock code. The indicator will go out when the unit is unlocked.

# PLACING TELEPHONE CALLS

## To Place a Call

1. Enter telephone number with the handset on-hook or off-hook. The last ten digits of the dialed number are displayed on the digital readout.
2. If a dialing error is made, press **[CLEAR]**, then enter the telephone number again.
3. Press **[SEND]**. Then **[IN USE]** indicator will light. You may lift the handset from the cradle either before or after the called party answers to proceed with your conversation.

## If the Call Fails to go Through

1. If you hear the "reorder" signal, hang up and try again. If there were no dialing errors, press **[SEND]** for automatic redial (re-dialing is not necessary).
2. If the "intercept" signal is heard, hang up. It then will be necessary for you to redial the correct number.

## Terminating a Call (Hanging Up)

Press **[END]**, or replace the handset in the cradle. The **[IN USE]** indicator will go out.

## To Receive Calls

1. When the telephone rings, lift the handset to answer. The **[IN USE]** indicator will light.
2. If the handset is out of the cradle when ringing starts, press **[SEND]** to answer the call.
3. If you desire to enter the call in the "hands free" mode, leave the handset in the cradle, press **[SEND]**, and then **[HANDS FREE]** for operation through the headset.

## To Place a Call to a Number in the Memory

1. Press **[RECALL]**, then enter the memory address (01 through 30). The last ten digits of the number will appear on the readout. If the number is longer than 10 digits, hold down the second digit of the memory address (after pressing **[RECALL]**) to see the prefix.
2. Press **[SEND]**. The **[IN USE]** indicator will light as the call is placed.

# SCRATCH-PAD DIALING

This feature permits you, while engaged in a conversation, to enter a number to be re-dialed (or store a number in memory) without hearing annoying tones over your circuit.

## When in the Hands-Free Mode

1. Press **[TONE]**, then enter the telephone number. The headset will remain active, but the tones will not be heard.
2. If necessary, press **[STORE]** (you will hear a tone); then enter the memory address (01 through 30). Wait for another tone.
3. Press **[CLEAR]**. You will then hear three tones, after which you may proceed with the next number.
4. To exit the "scratch pad" mode, press the **[TONE]** button again.

## When Not in the Hands-Free Mode

1. Press **[LISTEN]**. The handset is muted, and you will hear the other party's voice from the loudspeaker.
2. Enter the telephone number (you may enter the number with the handset either "off-hook" or "on-hook").
3. If necessary, press **[STORE]** (you will hear a "beep"); then enter the memory address (01 through 30). Wait for another "beep."
4. Press **[CLEAR]**. You will then hear three "beeps," after which you may proceed with the next number.
5. To return to normal conversation: if "off hook" press the **[LISTEN]** button; if "on hook" lift the handset from the cradle.

# HORN ALERT

1. Press **[HORN ALERT]** button until the indicator lights. Turn off the ignition switch, but leave the car telephone power switch ON. If necessary, lock the unit.
2. When a call is received, the unit will sound the horn or flash the lights five times, depending on how it has been wired.
3. This mode is automatically deactivated when the ignition switch is turned to the "on" or "accessory" positions, or, to prevent discharging the battery, after 1½ hours.

## MESSAGE OPTION

This feature automatically answers a call when you are not in the vehicle with one of two messages. To prevent discharging your battery, the message feature is deactivated after 3 hours, when the ignition switch is again turned to "on" or "accessory," or when memory addresses 31 through 38 are full of numbers.

### Message #1:

"Hello, this is \*\*\*\*\* This phone is unattended at the moment. If urgent, please call \*\*\*\*\* Thank you." (Tone)

### Message #2:

"Hello, this is \*\*\*\*\* This phone is unattended at the moment. After the tone, please key in your number. Then press the asterisk key. Your call will be returned. Thank you." (Tone)  
\*\*\*\*\* = telephone number determined by you (see the following paragraphs).

### When You Choose Message #1

1. Store your car telephone number in address 39, and the number where you can be reached in address 40.
2. Press **MESSAGE**, then the numeral 1.
3. Turn off the ignition switch, but leave the car telephone power switch ON. If necessary, lock the unit.
4. The unit will now respond to calling parties with message #1.

### When You Choose Message #2

1. Store your car telephone number in address 39.
2. Press **MESSAGE**, then the numeral 2.
3. Turn off the ignition switch, but leave the car telephone power switch ON. If necessary, lock the unit.
4. The unit will now respond to calling parties with message #2. The telephone numbers of calling parties are stored in memory addresses 31 through 38 (in the order received).
5. Turn the ignition switch to the "on" or "accessory" position when you return to the vehicle. The **RED** light will be lit if a call was received. You can then recall each number by pressing **RECALL** —(memory address)— **SEND**.

### NOTE

Received numbers will remain in memory locations 31-38 until the next time you wish to use the message option, by repeating steps 1 and 2 of either of the above procedures. When the Message Option feature is again selected, existing numbers in memory addresses 31 through 40 are erased.

## HANDS-FREE (HEADSET) OPERATION (optional)

1. After originating or receiving a call (press **SEND** to answer), or during the conversation, press **HANDS FREE**. The indicator will light.
2. Conduct the conversation via the headset. At the end of the call, press **HANDS FREE** or **END** to terminate the call. The indicator will go out.

## IMPORTANT SAFETY INFORMATION

Please read and follow these cautions carefully:

**TURN OFF** your unit in an explosive atmosphere (near a fuel pump, blasting area, etc.).

**DO NOT** operate your unit when someone is within two feet (0.6 meter) of your antenna.

**DO NOT** dial when your vehicle is moving in those states where this action is illegal (this is not a prudent practice, even where it is legal).

**DO NOT** permit untrained personnel to operate the unit.

## WARNING

The following offenses can be punished by fine, imprisonment, or both:

- Using obscene, indecent, or profane language.
- Using the unit to give off false distress calls.
- Wiretapping or otherwise intercepting a telephone call, unless that person has first obtained the consent of the parties participating in the call.
- Making anonymous calls to annoy, harass, or molest other people.
- Charging to an account without authorization to avoid payment for service.
- Refusing to yield a party line when informed that it is needed for an emergency call. (It is also unlawful to take over a party line by stating falsely that it is needed for an emergency).